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Certificate of Analysis

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Print Date: Apr 22nd 2020

Product Name: Indomethacin

CAS Number: 53-86-1 **IUPAC Name:** 1-(4-Chlorobenzoyl)-5-methoxy-2-methyl-1H-indole

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

C19H16CINO4.1/4H2O 362.29 White solid ethanol to 50 mM with gentle warming DMSO to 100 mM Store at RT

Storage: **Batch Molecular Structure:**

Me MeO CO₂H

2. ANALYTICAL DATA

TLC: **Melting Point:** HPLC: ¹H NMR: Microanalysis: R_f = 0.76 (Dichloromethane:Methanol [8:2]) Between 166 - 170°C Shows 99.5% purity Consistent with structure

	Carbon H	ydrogen N	litrogen
Theoretical	63.78	4.51	3.91
Found	63.75	4.5	3.87

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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EC Number: 200-186-5

Product Information

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Print Date: Apr 22nd 2020

Product Name: Indomethacin

53-86-1

Catalog No.: 1708

Batch No.: 1

EC Number: 200-186-5

IUPAC Name: 1-(4-Chlorobenzoyl)-5-methoxy-2-methyl-1H-indole

Description:

CAS Number:

Cyclooxgenase (COX) inhibitor; displays selectivity for COX-1 (IC₅₀ values are 230 and 630 nM for human COX-1 and COX-2 respectively). Widely used anti-inflammatory agent. Identified by chemoinformatics as targeting human host proteins that interact with SARS-CoV-2.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₉H₁₆CINO₄.¹/₄H₂O Batch Molecular Weight: 362.29 Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at RT

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

ethanol to 50 mM with gentle warming DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Gordon et al (2020) A SARS-CoV-2-human protein-protein interaction map reveals drug targets and potential drug-repurposing. BioRxiv - Paper not yet peer reviewed.

Palomer et al (2002) Identification of novel cyclooxygenase-2 selective inhibitors using pharmacophore models. J.Med.Chem. 45 1402. PMID: 11906281.

Shen and Winter (1977) Chemical and biological studies on indomethacin, sul. and their analogs. Adv. Drug Res. 12 90. PMID: 343530. Walters and Willoughby (1965) Indomethacin, a new anti-inflammatory drug: its potential use as a laboratory tool. J.Pathol.Bacteriol. 90 641. PMID: 5849618.

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